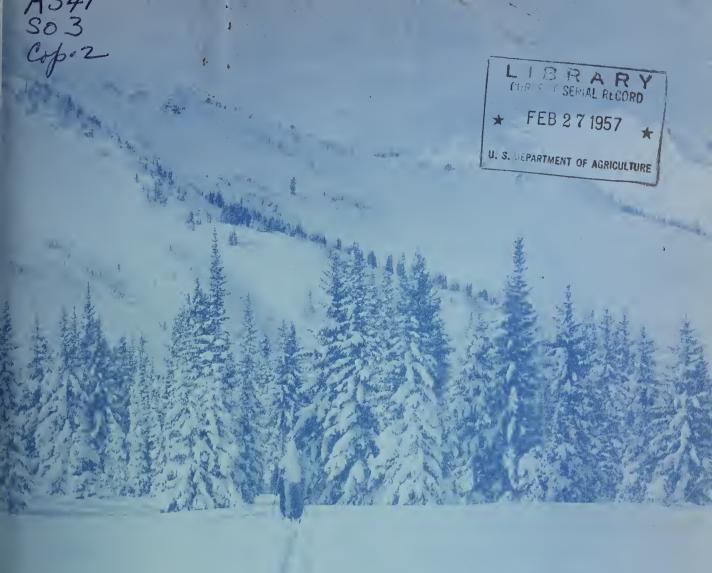
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FEDERAL - STATE COOPERATIVE SNOW SURVEYS and WATER SUPPLY FORECASTS for

WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE, and

STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, Bureau of Reclamation, National Park Service, and other Federal, State and local organizations.

FEB. 1, 1957

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS

Snow surveys in the west are conducted each year at more than 1200 snow courses. Basin and Province or State snow survey reports summarizing the results of the measurements and forecasts of seasonal runoff and water supply are issued by the Soil Conservation Service, U. S. Department of Agriculture and some of its cooperators; the Water Rights Branch of the British Columbia Department of Lands and Forests; and the California Division of Water Resources.

Copies of the various federal-state cooperative snow survey reports listed below may be secured by writing to:

Head, Water Supply Forecasting Section Soil Conservation Service 209 S. W. 5th Avenue Portland 4, Oregon

BASIN REPORTS:

S

	Issued monthly February through May by SCS and Colorado Experiment Station, Fort Collins, Colorado.*
Columbia River Basin	Issued monthly January through May by Soil Conservation Service, Boise, Idaho.*
Upper Missouri River Basin	Issued monthly February through May by SCS and Montana Agricultural Experiment Station, Bozeman Montana.*
West-Wide Water Supply Outlook	Issued April 1 by Soil Conservation Service and Co- operators, Portland, Oregon.
STATE REPORTS:	
Arizona	Issued semi-monthly January 15 through April 1 by SCS and Salt River Valley Water Users Association, Phoenix, Arizona.*
Nevada	Issued monthly February through April by SCS and Nevada State Engineer, Reno, Nevada.*
Oregon	Issued monthly January through May by SCS, Portland, Oregon, and Oregon Agricultural Experiment Station.*
Utah	Issued monthly January through May by SCS, Salt Lake City, Utah, and State Engineer of Utah and Utah Agricultural Experiment Station.*
Washington	Issued monthly February through May by SCS, Spokane, Washington, and State Department of Conservation and Development.*
Wyoming	Issued monthly February through May by SCS, Casper, Wyoming, and State Engineer of Wyoming.*

*Special reports are issued as needed.

The British Columbia reports are issued February 1 through June 1 and may be secured from Comptroller, Water Rights Branch, Department of Lands and Forests, Parliament Building, Victoria, B. C.

The California reports are issued monthly February 1 through May 1 and may be secured from Division of Water Resources, California Department of Public Works, Sacremento, California.

The annual water supply forecasts of the Weather Bureau are available in monthly bulletins published from January through May. These bulletins entitled, "Water Supply Forecasts for the Western United States" may be obtained from River Forecast Center, Weather Bureau, 712 Federal Office Building, Kansas City 6, Missouri.

PEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Issued February 1, 1957

Report Prepared
by
George W. Peak
Snow Survey Supervisor

Soil Conservation Service and State of Wyoming

345 East 2nd Street
P. O. Box 699
Casper, Wyoming

Issued by

B. H. Hopkins State Conservationist Soil Conservation Service

L. C. Bishop State Engineer of Wyoming Cheyenne, Wyoming



PRELIMINARY WATER SUPPLY OUTLOOK FOR WYOMING February 1, 1957

The storage of water in the mountain snow packs of Wyoming is ranging from a deficit of 70 per cent of normal in the north to 135 per cent of average in the south.

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The status of the state's reservoirs is not good. Current useable storage is 60 per cent of the normal amount for this time of year.

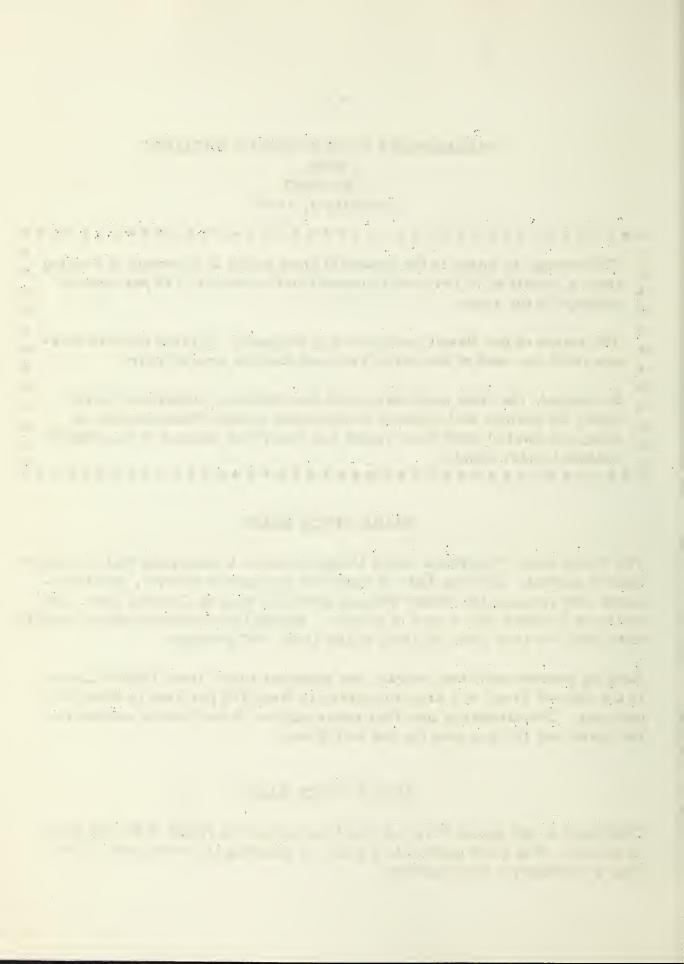
SNAKE RIVER BASIN

The Snake River Watershed above Moran contains a snow pack that is almost exactly normal. Jackson Lake is quite low because of repairs, and Pallisades now contains the winter storage normally held by Jackson Lake. Soil moisture is about 85 per cent of normal. Runoff into Jackson Lake is expected to be 856,000 acre feet, or close to the 1938-1952 average.

Ranging downstream from Moran, the expected runoff from Pacific Creek to the Hoback River will drop successively from 100 per cent to about 80 per cent. The discharge into Pallisades will be 92 per cent of normal for the Snake and 105 per cent for the Salt River.

GREEN RIVER BASIN

Conditions in the Green River at this time indicate a runoff of 85 per cent of normal. The snow pack in this Basin is standing at 70 per cent of last year's February 1 accumulation.



NORTH PLATTE BASIN

The February 1 snow pack on the North Platte Watershed is 135 per cent of normal, which is the same as that for one year ago, however, reservoir storage on the North Platte is considerably below normal. The water supply, assuming a subsequent normal increase to the snow pack, will be slightly less than average for the Basin.

The Laramie River Watershed storage indicates a runoff at Jelm of 110 per cent of normal.

WIND RIVER BASIN

The accumulation of water in the snow fields on Wind River range and the west flank of the Owl Creek watershed, indicates April to September discharge of about 90 per cent of normal. The Snow Surveyors found a sharp decline in the snow south and east of Togwotee Pass and extending as far south as Grannier Meadows and South Pass. Boysen Reservoir is standing at 43 per cent of capacity.

BIG HORN BASIN

Records are as yet not adequate for parts of this area, however, the west flank of the Big Horns has a snow-water storage of 77 per cent of February 1, one year ago. From runoff records this is estimated at about 75 per cent of normal.

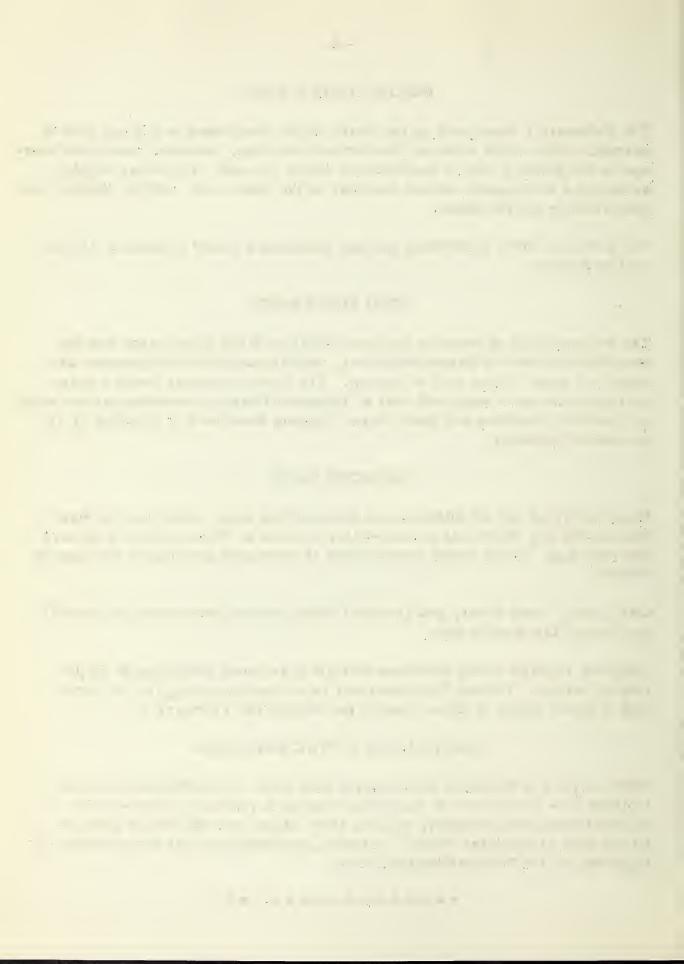
Owl Creek, Wood River, and Greybull River contain snow packs of about 70 per cent of last year's data.

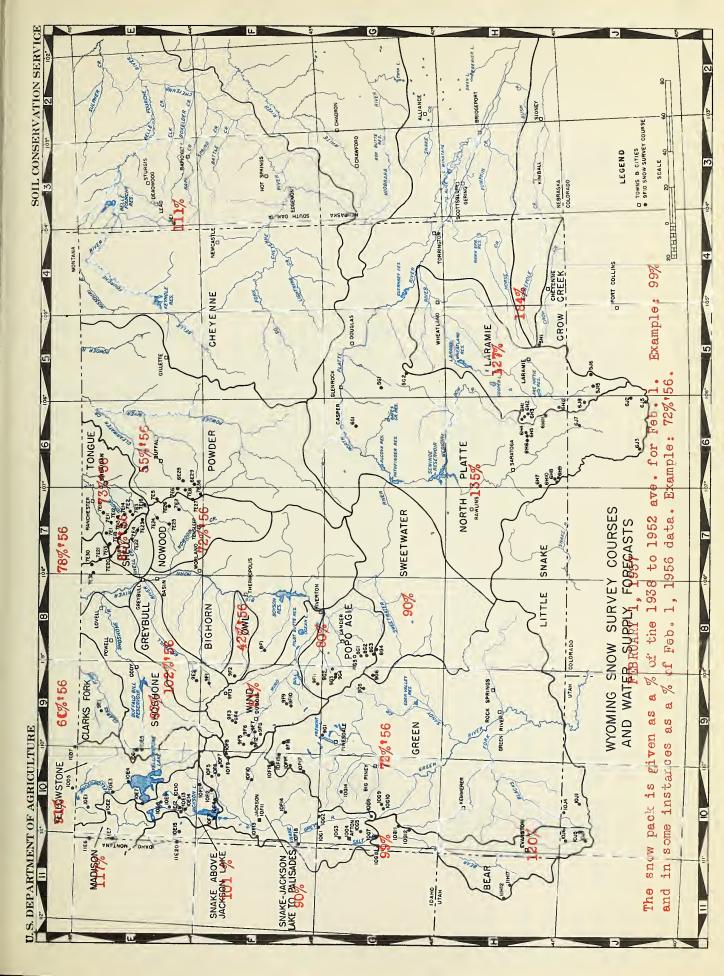
Adequate records on the Shoshone indicate a seasonal discharge of 93 per cent of normal. Buffalo Bill Reservoir is currently storing 144,000 acre feet of water which is 52 per cent of the normal for February 1.

EAST FLANK OF THE BIG HORNS

Snow surveys in this area were started last year. Data obtained this year is about 65 - 70 per cent of watershed storage a year ago. Snow-water accumulation is quite spotty, ranging from 22 per cent at Soldier Park to 80 per cent at Medicine Wheel. A runoff, considerably less than normal, is expected for the Buffalo-Sheridan area.

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INDEX TO WYOMING SNOW COURSES

			LOCATI	LON		2.		v		0.4.	hr.		LOCATI	011	Dence	Perced.	Vest	here
inage Basin Course Name	Wyomin	Elev.		Twp.	Range Long.	Record	Meea. Datoa	Mega.		ge Sesin urse Neme	Nyoming	Elev.	Lat.	Twp.	Range Long.	Record Segan	Dates	kogs.
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ce Mountain en Entrance	10E6	7000	17	95 52N	9E 109W	1935	3,4 1,2,3,4,5	2	Columbi Fox Per	ine *c	6J3 6I!12	9300 9200	21 21	5N 13N	82W 78W	1936 1936	2,3,4,5	1
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an Pasa	10E5	7100	12	52N	110%	1936	1,2,3,4,5	2	North 1	French Creek#1 French Creek#2		10200 10200 8500	27 27 7	16N 16N 11N	80W 80W 79W	1938 1958 1950	2,3,4,5 2,3,4,5 2,3,4,5	1,4
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Narm Tarm	9F12	8800	36	42N	1090	1955	2,3,4,5	1	Hebber	Spring Creek Pass *c	6H9 6J6	9000 9500	27 1	14N 4N	95W 78W	1936 1938	2,3,4,5	1,4
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er Creek le Werm iden R.S. #1 •1	9F7 9F8 9F5	8500 9500 7500	12 24 3	41N 41N 42N	108# 108# 109W	1948 1948 1 939	2,3,4,5 2,3,4,5 2,3,4,5	1	GREEN							1053		
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otee Paas	10F9	9600	29	44N	110#	1936	2,3,4	5	Eest R	im Divide River Lakes	10F17 9F16	7950 8100	32 30	37N 39	111W 108W	1935 1955	1,2,3,4,5	1
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a rark wito Perk R.5. ill Glade	964 861	9500 8500	23	2S 31N	3W 101W	1940 1939	2,3,4,5	1	Kendal Loomis	Park	10F15 10F16 9G1	7900 8500 8900	23 14 17	38K 37N 35N	110W 111W 108W	1936 1936 1936	2,3,4,5 2,3,4,5 2,3,4,5	1 1
h Pass awrence R.S.	8G3 9F11	9000 9000	13 26	30N 1N	101% 4W	1939 1940	2,3,4,5	1	01d 8a	en Park ttle LaSerge	6H10 10G10	9800 9800 8820	29 19	14N 29N	86W 114W	1936 1937	2,3,4,5	1,4
t Creek	9G2	8400	5	25	217	1948	2,3,4,5	1	Poison Snyder	Meedows Sesin R.S.≓l	10G6 10G9	8500 8040	29 15	30N 29N	116W 114W	1948 1937	2,3,4,5	1
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Entrance in Pase	1 9 E5 10E5	7000 7100	17 12	82N 52N	109W 110W	1948 1936	1,2,3,4,5	2 2	Lewis Moren	Lake Divide	10E9 10F4	7900 6800	44°13° 8,17	45K	110°40' .	1919 1919	2,3,4,5	5
DD CREEK										River Station	10F3 10E12	6800 6780	14 44°08° 44°22°	45N	116W 110°40' 110°35'	1919	2,3,4	5 5
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oine Lodge Lake ere Pase *d h Powder #2 *e	7E8 7E36	9700 8300	11 20	48N 47N	85\n 85\n 85\n	1956 1956	2,3,4,5	1	Afton		1004	5200	30	32N	116W	1935	2,3,4,5	4
n Gulch leep Lake	7E27 7E26	8100 9075	31 33	48N 50N	85 % 8 6 %	1955 1955	2,3,4,5	1	8leckr 8 li nd	ock 8ull	10F7 10G2	8600 8750	4	44N 34N	111W 115W	1935 1948	2,3,4	5
leep R.5. 11 R.5.	7E7 7E35	8300 8300	30 30	49N 49N	86W 86W	1935 1955	2,3,4,5	1	Bryan : CCC Car Cotton	Flet mp wood Lake	10F14 10G7 10G5	5250 7500 7500	9 9 25	38N 29N 31N	115W 118W 118W	1935 1935 -4 1935:	1,2,3,4,5	1,4
CREEK									Dondma:	mood Pake n Ranch im Divide	1065 1061 10F17	7500 6534 7950	28 32	485 N 37N	115W 115W 111W	1936 1936	1,2,3,4,5 1,2,3,4,5 1,2,3,4,5	1
Mountsin er-Tongue Divid		9600 9200	33 12	55N 55N	91W 91W	1955 1955	2,3,4,5	1	Four M Greya	ile Meedows Soundery	10F6 10F18	7770 5800	35 33	45N 37N	112W 118W	1936 1935	2,3,4,5	5
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ito Paas o-Trail Divide or Crock	7E17 7E19 7E4	8950 9200 8800	19 29 32	54 N 55 N 53 N	90W 88W	1955 1965 1935	2,3,4,5 2,3,4,5 2,3,4,5	1 1		Park Meadowa Paaa #2	10F16 10G5 10F13	8500 8500	14 29 24	37N 30N 41N	11 1W 11 6W 11 8W	1936 1949 1935	2,3,4,5 2,3,4,5 1,2,3,4,5	1 1,4
l Creek	7E23	9600	12	52N	88W	1955	2,3,4,5	i	Togwot	rana #2 se Pesa Meadows	10F13 10F9 10F5	9600 69 3 0	29 14	41N 44N 45N	110W 112W	1935 1935	2,3,4,5	5
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sa R.5. #1 sas R.5. #2.	7E1 7E33	7900 7900	35 35	55N 56N	8 9W 8 9W	1950 1955	2,3,4,5	1	Heed o	Fork *u f Beer River *	10J7 u 10J5	9300 8600	1 15	1S 2N	9E	1951	4.5	1
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te Pasa	7E17 7E19	8950 9200	19 29	54N 55N	90W	1955 1955	2,3,4,5	1 1		iver Summit	1036	7900	32	29N	1167	1948	2,3,4,5	1,4
Geneva Tongue	7E16 7E15	90 00 8800	7	62N 55N	8 <i>5</i> W	1956 1955	2,3,4,5	1										
y Lake r Creek	7E11 7E12	8000 9000	10 19	55N 55N	88W 87W	1955 1955	2,3,4,5	1								*		
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R RIVER																		
Woman Creek G.S.	7E29 7E28	8200 7800	8	47N 48N	84W 84W	1958 1958	2,3,4,5	1										
ra Pass *d Powder #2 *e	7E8 7E36	9700 8300	11 20	48 N 4 7 N	85W 86W	1950 1955	2,3,4,5	1	,									
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Dough WATER	7E6	8500	17	49N	84W	1935	2,3,4,5	1										
nier Leadowe #:	8G4	9000	19	3011	100W	1937	2,3,4,5	1										
nier Meadowa #2 n Creek	8G5 9G8	9000 90 0 0	19 12	30N 30N	100W	1955 1949	2,3,4,5	1	a. N b. N	umerals 1,2,3,	to Agency	that a	sourea ti	l, Febru	ury 1, Kar	oh 1, Apr	il 1, and	Lay 1.
Pass	8G 3	9000	13	30N	101#	1939	2,3,4,5	1		1. Soil Con 2. U. 5. Ne	servation tional Pe	Servio rk Servi	٠.					
(IE RIVER	eus	10200	,,) an	700	1020	2 1 4 5	,		3. U. 5. In 4. U. 5. Fo	dien Serv rest Serv	100. 100.						
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Mountain #2	5H1	8700	35	15 N	7.2W	1936	2,3,4,5	1,4		outh Dakota sn								

COOPERATIVE SNOW SURVEYS Summary of Snow Measurements

February 1, 1957

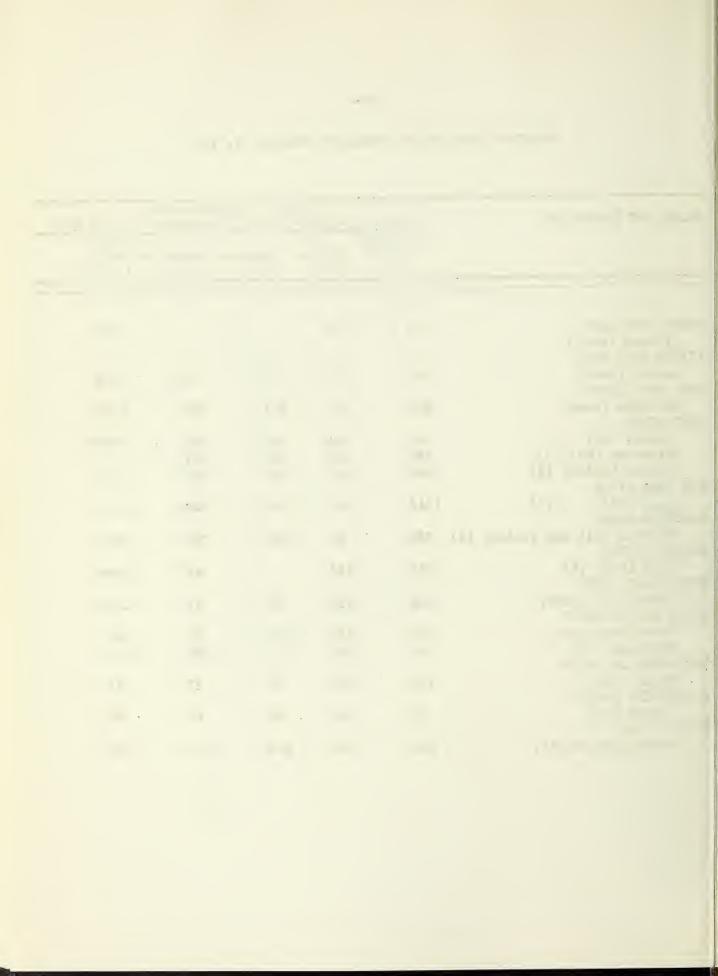
T. A. C.						
WATERSHEDS	NO. OF COURSES	YEARS OF	195 7	SNOW WATER AS PERCEITA		
WATEROLLIO	AVERAGED	RECORD	1956	1955	Average	
Madison River	2	19	70%	171%	117%	
Yellowstone Park	6	10-14	60%	161%	91%	
Clark's Fork	1	1	60%			
Wind River	4	15-21	56%	160%	81%	
Popo Agie River	5	13-15	46%	182%	80%	
Owl Creek	2	8	42%	108%		
Greybull River	2	1-2	102%			
Shoshone River	1	13	69%	246%	93%	
Nowood Creek	6	1	72%			
Shell Creek	7	1	80%			
Porcupine Creek	2	1	78%			
Tongue River	12	1	73%			
Pewder River	5	1	55%			
Sweetwater	2	15	53%	174%	90%	
Laramie River	7	13-20	88%	167%	12 7 %	
Crow Creek	1	20	119%	196%	184%	
North Platte	12	7-21	100%	175%	135%	
Cheyenne River	1	13	151%	109%	111%	
Green River	9	1	72%			
Snake River - Above Jackson Lake	12	10-27	59%	165%	101%	
Snake-Jackson Lake to Palisades	12	10-21	63%	152%	90%	
Bear River	1	21	74%	156%	99%	

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WYOMING STREAM-FLOW FORECASTS FEBRUARY 1, 1957

	 	A 22.23	il - Septe	mhom ZO	
BASIN AND TRIBUTARY	Concomel				f Acre Feet
DASIN AND INIBULANT	FORECAST		e 10W III III	ousends of	15-Yr.
	RUNOFF	15-Yr.	Managerad	7 0 6644	
	RUMOFF			Runoff**	Avg
		AVG.	1956	1955	1958-52
NORTH POPO AGIE	75	90			83**
Milford (near)	, •				
LITTLE POPO AGIE					
Lander (near)	48	90	25	39	53**
POPO AGIE RIVER	10		20	00	00
Riverton (near)	310	20	171	230	345**
WIND RIVER	010	20	111	200	02044
Dubois (at)	92	90	66	105	102**
Riverton (at) (1)	460	90	101	287	511
Boysen (below) (2)			401		
BIG HORN RIVER	845	90	401	629	939
	2240	0.5	202	000	317.4.4
Kane (at) (2)	1142	85	703	696	1344
SHOSHONE RIVER	205	07	=00	200	0.07
Buffalo Bill Dam (below) (3)	765	93	566	788	8 23
LARAMIE RIVER				4.0	205.
Jelm (at) (4)	115	110		46	105*
ENCAMPMENT RIVER					
Encampment (near)	184	115	86	72	160*
NORTH PLATTE RIVER					
North Gate (at)	270	110	128	69	245
Saratoga (at)	720	110	319	234	65 7
MEDICINE BOW RIVER					
Hanna (near)	122	110	51	17	111
SWEETWATER RIVER					
lcova (at)	7 0	95	35	45	73
GREEN RIVER					
Warren Bridge (at)	285	85	253	354	333



WYOMING STREAM-FLOW FORECASTS FEBRUARY 1, 1957

		Anni	7 500	- amb on 20	
	Seasonal			tember 30 Thousands of	Acre Feet
BASIN AND TRIBUTARY	FORECAST	%	The state of the s		15-Yr.
	RUNOFF	15-Yr.		red Runoff	Avg.
		Avg.	1.958	1955	1938-52
SNAKE RIVER					
Moran (at) (5)	856	100	738	1010	858
PACIFIC CREEK					
Moran (near)	165	100	142	230	166**
BUFFALO FORK					
Moran (near)	310	87	315	418	356**
Gros Ventre	000	0.5	7.00	- 0.0	
Kelly (at) HOBACK	22 2	85	199	293	261**
Jackson (near)	310	80	200	440	200
SNAKE RIVER	210	00	290	448	386**
State Line (at) (5)	2,720	92	2,516	3298	2949**
SALT RIVER	~ J , ~ ~ ~		<i>195</i> 10	0200	AOTO WA
State Line (at)	377	105	231	287	360
BEAR RIVER				-	
Evanston (near)	155	109	74	55	142
Randolph (near)	116	100	26	15	116*
Harer (at) Idaho	248	88	116	100	281
SMITHS FORK					
Border (near)	102	89	7 8	8 9	114*
TONGUE RIVER	7.05				
Decker (at) Mont.	165	70		111	236

All stream data taken from observed flow records with the following exceptions:

⁽¹⁾ Observed flow corrected for storage in Bull Lake and Pilot Butte reservoirs.

⁽²⁾ Observed flow corrected for storage in Boysen, Bull Lake and Pilot Butte Reservoirs.

⁽³⁾ Observed flow corrected for storage in Buffalo Bill Reservoir and Hart Mountain Diversion.

⁽⁴⁾ Observed flow corrected for Colorado diversion above station.

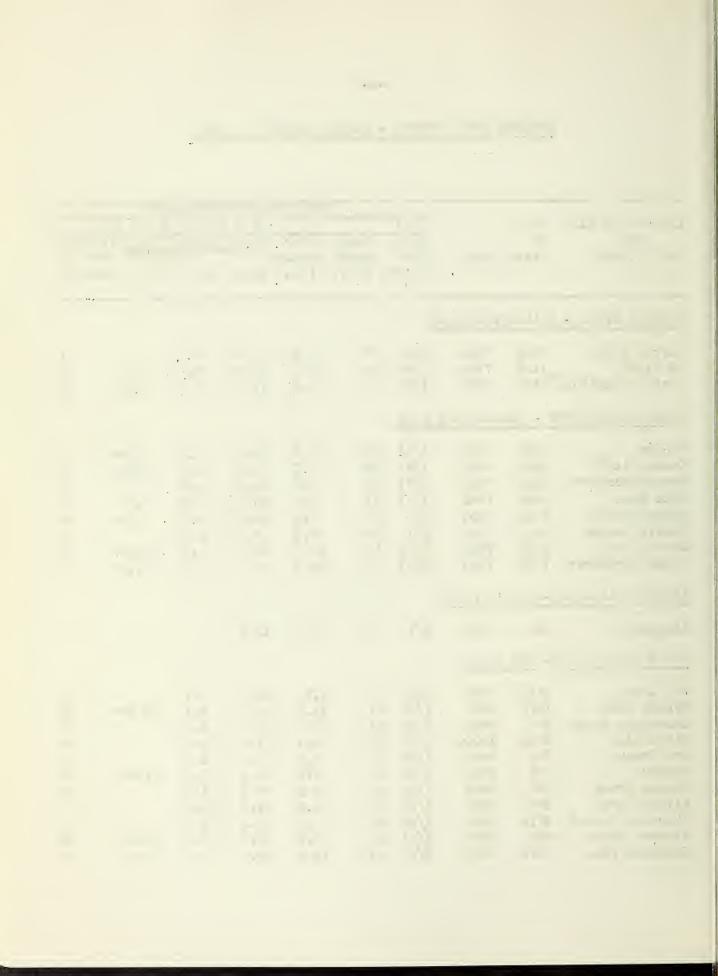
⁽⁵⁾ Observed flow corrected for Jackson Lake Storage.

^{*} Less than 15.

^{**} Estimated 1938-52 average.

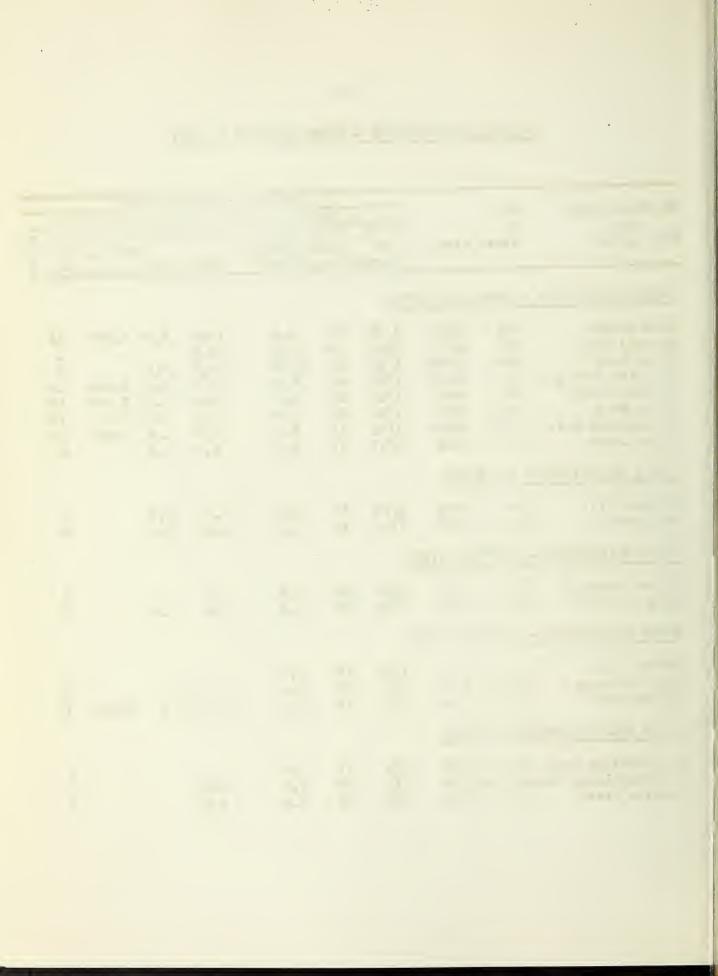
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					SMOUL CO	THE CHY	rangaran)	TTC				
DRAINAGE BASIN	No.		1957	SNOW COVER MEASUREMENTS 1957 : Past Record								
and	or		Date	Snow	Water		Conten		evious			
SNOW COURSE	State	Elev.	of		Conten				s. of			
				y (In.)			1955		cord			
-												
MADISON RIVER -	YELLOWS	STONE PAR	<u>K</u>				Tp					
Norris Basin	10E2	7500	2/1	37	6.6	9.9	4.5		7			
21 Mile ^m	_11E6	7150	1/28	49	13.0	18.7	7.6	11.1	19			
West Yellowstone	11E7	6700	1/27	38	9.1	12.7	5.3	7.8	19			
UPPER YELLOWSTON	IE - YEI	LLOWSTONE	PARK									
Canyon	10E3	7750	1/31	45	10.0	15.0	7.8	9.5**	12			
Cooke Citym	10D7	7400	1/31	28	5.8	8.9	3.4	5.8**	10			
East Entrnace*	10E6	7000	1/31	38	8.9	12.8	2.9	0,011	8			
Lake Camp	10E4	7850	1/31	31	6.0	15.0	3.2	6.8	11			
Lupine Creek	10E1	7300	2/4	36	8.2	13.0	6.1	6.8**	14			
Morris Basin*	10E2	7500	2/1	37	6.6	9.9	4.5		7			
Sylvan Pass	10E5	7100	1/31	42	10.1	14.7	4.1	10.9**	13			
Thumb Divide***	10E7	7 9 0 0	1/31	53	12.8	NR	8.2	18.2**	10			
LOWER YELLOWSTON	E-CLARK	'S FORK										
Lodgepole	9E1	8200	2/1	30	7.5	12.6			1			
LOTER YELLOTS TON	E-/IND	RIVER										
Big Warm	9F12	8800	1/23	27	5.3	10.6	1.7		2			
Brooks Lake	10F8	9200	1/22	51	12.6	23.8	9.7	17.2**	16			
Burroughs Creek	9F4	8800	1/24	31	7.3	17.0	4.4		8			
Dinwoodie	9F 10	10000	1/25	29	6.7	11.8	2.9		8			
Dry Creek DuNoir	9F9	9500	1/25	18	3.5	7.6	1.7	0.5	8			
Geyser Creek	9F6 9F7	8 7 50 8500	$\frac{1}{23}$ $\frac{1}{23}$	22 20	4.5 4.2	8.9	1.0	6.7**	15 8			
Little Warm	9F8	9500	1/23	38	9.3	8.9 17.9	1.4 5.0		8 7			
Sheridan R.S. 2	9F 14	7500	1/22	23	4.2	8.3	2.3		2			
T-Cross Ranch	9F3	8000	1/24	18	5.2	8.3	2.2	5.1**	16			
Togwotee Pass	10F9	9600	2/2	67	16.9	29.4	11.6	19.2	21			



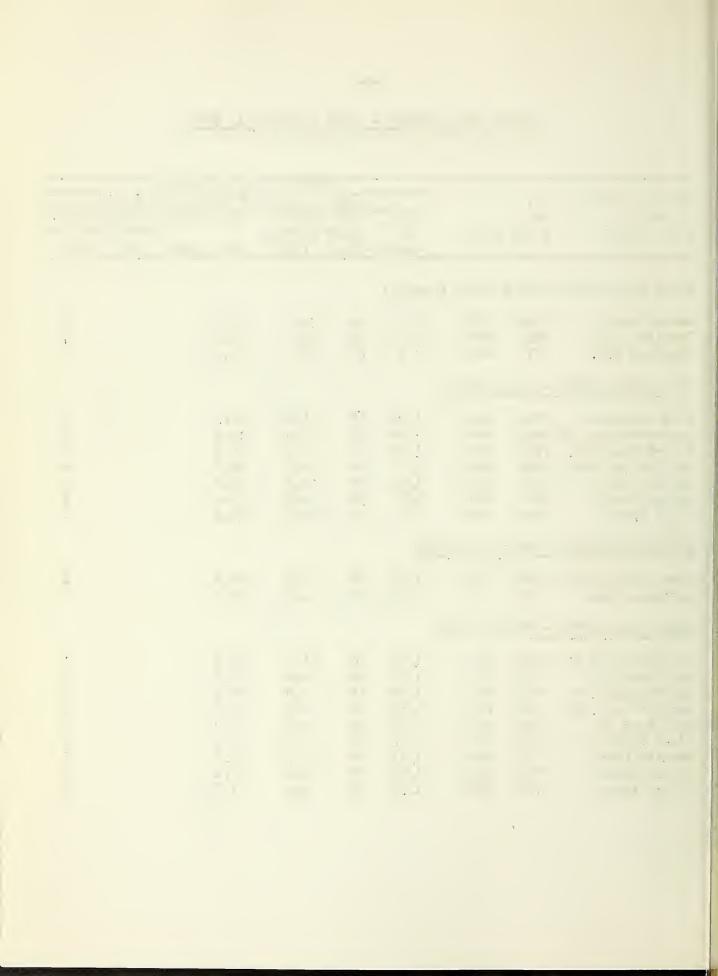
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					TIONE CO.	3. 23° /. CI T.7	TO KIND COMMENT	-	
DD/ THI/ CEL DAGIN	NT -			1957	NOW CCARR				_ 7
DRAINAGE BASIN and	No.		Dote		Of a tree r	H H S	Towns	e 6 0 1	Previo
SNOW COURSE	or State	TP 7 0	of		Water & Content	Mr. Cal.			Yrs, of
SHOW COOKSE	S ta te	TTO.			(In.)	1956		Avg.	Record
			survey	(1110)	(111.)	1990	1200	14 V S a	Vecov.a
LOWER YELLOWSTONE	- POPO	AGIE RIV	ER						
D3 D* 3	000	0500	2 /00	00	0.0	35.0	7 0	0.047	2.5
Blue Ridge	8G2	9500 6500	$\frac{1}{29}$	28	6.0	15.6	3.8	8.0**	15
Bruce's Camp Hobbs Park	8G5 9G3	10000	1/27	5 40	0.6 10.6	0.8 19.3	A =		1 8
Mosquito Park R.S.		9500	1/27	21	4.2	8.9	4.5	5.9**	13
Sarmill Glade	8G1	8500	1/29	21	4.1	8.0	2.2	5.1**	15
South Pass	8G3	9000	1/29		9.0	17.0			15
	9F 11	9000	1/26	19	3.6	8.9		5.0**	13
Trout Creek	9G2	8400	1/27	17	3.6	4.0	0.8	0.000	8
12 000 01 001	000	0.100	٠, ۵،	± '	0.0	± • O	0.0		Ü
LOWER YELLOWS TONE	- OWL C	REEK							
Beavers Mill	9F2	8900	1/31	17	3.2	7.2	3.8		8
Owl Creek	8F1	8700	1/31	13	2.2	5.8	1.2		8
			•						
LOVER YELLOWS TONE	- GREYB	ULL RIVE	R						
			-,						
Timber Creek #2	9E3	8300	1/29	12	2.0	1.5			1
Wood River #2	9F 1	0003	1/30	17	2.6	3,0	1.0		2
TOWNS WILL OWNER ON THE	GIIAGII	O TOTAL DO TATA	n						
LOWER YELLOWSTONE	- SHUBE	KLVD.	an an						
Carter Mtn.			1/28	15	4.0				^
East Entrance	1056	7 00 0		38	8,9	12,8	2.9		0 8
Sylvan Pass	1055 1055	73.00	$\frac{2}{1}$	42	10.1	14,7	4.1	10.9**	
Sy Ivall Lass	TOTAL.	72.00	۵/ ۱	42	10.01	T-1 1	±• T	TOPDAY	TO
LOWER YELLOWSTONE-	MOMOOD (CREEK							
by st continue and are stored to the to the	THE STATE OF THE S	er out out of the File by the property of the second							
Cold Springs Camp	7 E25	8.700	2/5	21	4.8				1
Medicine Lodge Lak			2/5	30	7.2	9,2			ī
Lunkres Passd	7E8	9700	2/3	26	6.0	9,0			2
			-		- • -	, -			-



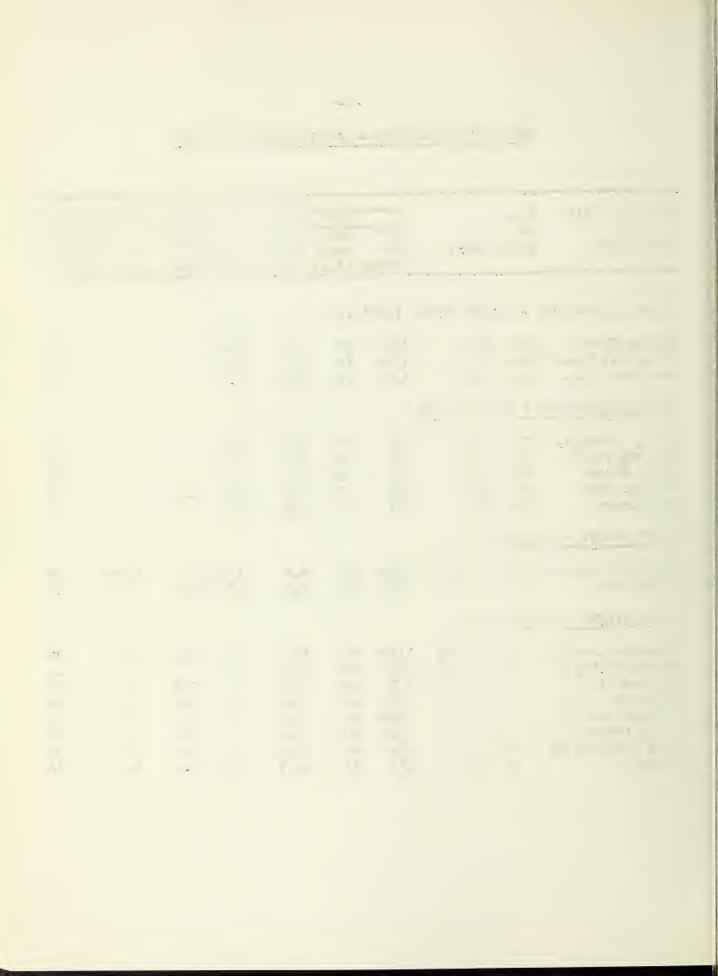
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				S	NOW COVER	LEASU	REMENTS	
DRAINAGE BASIN	No.			1956			t Reco	
and	or		Date	Snow		Water	Content(In.	
SNOW COURSE	State	Elev.	of		Content.	3000		Yrs. of
			Survey	(In.)	(In.)	1956	1955 Avg.	Record
LOWER YELLOWS TONE	NOWOOD	CREEK (C	on't.)					
Onion Gulch	7E27	8100	2/3	29	6.4	8.2		1
Tensleep Lake	7E26	9075	2/2	32	6.4	9.4		1
Tensleep R.S.	7E7	8300	2/1	26	4.9	6.6		1
LOWER YELLOWSTONE	- SHEL	L CREEK						
Eald Mountain	7E21	9600	1/25	43	11.8	14.3		1
Beaver - Tongue Div		9200	1/25	40	11.2	14.1		ī
Bone-Spring Div.	7E18	9200	1/27	38	9.9	13.6		1
Granite Cr. Camp	7E22	7 800	2/7	16	3.8	4.3		1
Granite Pass	7E17	8950	1/27	37	10.2	13.5		1
Ranger Creek	7E4	8800	2/7	28	6.5	7.4		1
Shell Creek	7E23	9600	2/7	36	10.0	12.2		1
LOWER YELLOWS TONE	- PORG	UPINE CRE	EK					
Five Springs Falls	5 7E31	7500	1/30	14	2.6	4.6		1
Medicine Wheel	7E30	9000	1/25	35	9.0	10.2]
LOWER YELLOWSTONE	- TONG	UE RIVER	,					
Deaver-Tongue Div		9200	1/25	40	11.2	14.1		1
Big Goose #2	7E32	7700	1/31	19	4.4	6.6		1
Eone-Spring Div.	7E18	9200	1/27	38	9.9	13.6		1
Burgess R. S. #2 Dome Lake #2	7E33 7E34	7 900 8800	1/26	19	4.1	5.9		1 1
Gloom Creek	7E34 7E14	9300	1/31 1/28	25 28	6.0 6.9	8.0 8.9		1
Granite Pass	7E17	8950	1/20 $1/27$	37	10.2	13,5		i
North Tongue	7E15	8800	1/25	19	4.4	7.6		ī
Sibley Lake	7E11	8000	1/29	24	5.4	7.3		1



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					ISP MARITED	
DRAINAGE BASIN	No.		1957		CPE DE	Record
and	or	Date	Snow	We tex	? Whien Con	bout Cla Praviou
SHOW COURSE	State Elev.	of		Content	1956 19 55	1955-82 Yrs. of
		Survey	(In.)	(ans)	1900 1900	Avg. Record
LOWER YELLOWS TON	E - TONGUE RIVE	R (Cont	t.)			
Sucker Creek	7E12 9000	1/28	27	6.3	8.0	1
Steamboat Point	7E10 7500	1/29	14	3.4	5,0	1
Wood Rock G.S.	7E13 8500	1/26	27	6.0	8.6	1
LOWER YELLOWSTONI	E - POWDER RIVER	<u> </u>				
Muddy Creek G S	\$ 7503 7500	2/4	8	2.2	4.0	1
Muddy Creek G. S Homkres Pass	7E3 9700	$\frac{2}{3}$	26		9,0	2
Cnion Gulch	7E27 8)00	2/3	29	6.4	8.2	ĩ
Soldier Park	7 15 8700	2/2	8		7.6 1.3	6
Four Dough	7E6 8500	2/4	19	3.8	7.7	1
NORTH PLATTE - SV	vedtwa pur					
Grannier Meadows	#1 804 9000	1/29	38	8.4	15.6 4.5	9.7** 15
South Pass	803 900 0	1/29	36	9.0	17.0 5.5	-
2		- / ~-		- • •	,,	
MORTH PLATTE - L/	ARAMIE RIVER					
Prooklyn Lake #1	6HI 10800	1/29	55	17.0	19.3 11.3	13.6 19
Brooklyn Lake #2	6H13 10200	1/29	56	16.5	10.5	1
Deadman Hill	5 76 1030 0	2/1		9.5	14.0 5.7	
Fox Park	6H 12 9 9 9 9 9	1/26			5.8 3.4	
Hairpin Turn #2		1/29		9.6		7.1 19
Idbby Lodge #2 Pole Mountain #2	6H3 E700 5H1 8700	1/29 1/28		8.8 5.7		6,2 19 3,1 20
Foach ^c	638 9500	2/1	40	10.7	14.0 8.2	10.7 15
- 424	0.5 5 6000	2/ -		701		

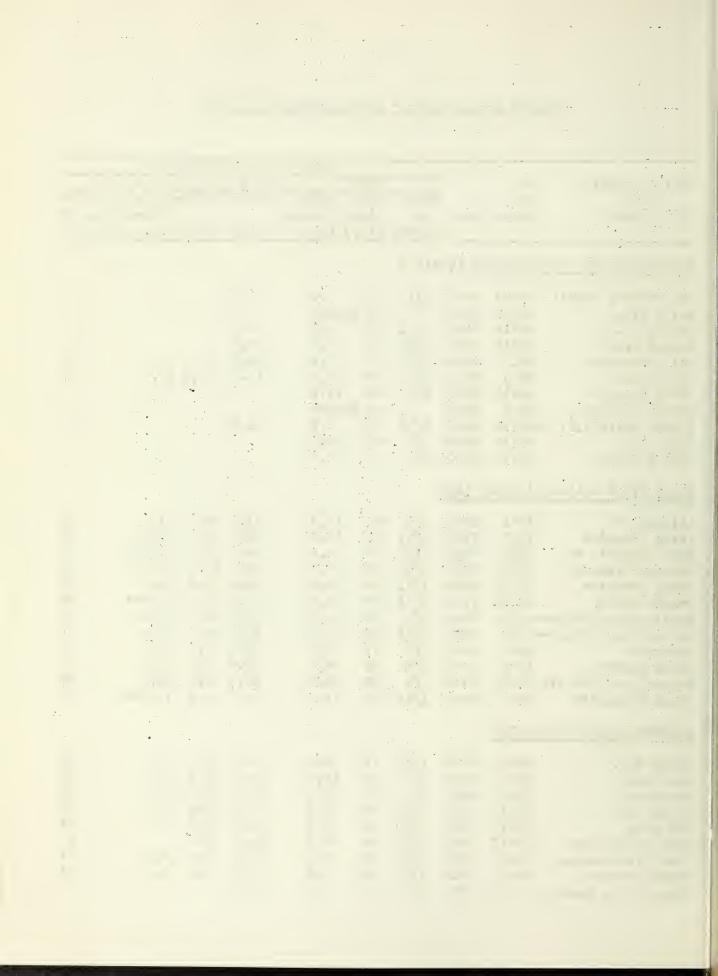


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	SNOW COVER MEASUREMENTS											
DRAINAGE BASIN	No.			1957		P a.		9001	c d			
and	or		Date	Snow					Previou			
SNOW COURSE	State	Elev.	of		Content				Yrs. of			
			Survey		(In.)	1956	1955		Record			
					opening in a second factorist to				*/			
NORTH PLATTE - CRO	W CREE	K										
Pole Hountain #2	5H1	8700	1/23	24	5.7	4.8	2.9	3.1	20			
NORTH PLATTE - ABO	VE SEM	INOE RESE	RVOIR									
Albany	6H11	9400	1/28	43	10.9	12.0	5.4		8			
Bottle Creek	6H8	8200	1/31	47	13.3	11.8		8.2	19			
Boxelder	5G1	9000	2/1	20	5.0	2.8	NR		6			
Cameron Pass C	5J l	10300	2/1	47	12.8	18.0	9.7	12.5	18			
Casper Mountain	6 G 1	8700	2/5	33	9.6	7.0			1			
Columbine	6J3	9300	1/29	70	18.1	21.1	13.9	14.3	21			
Fox Park	6H12	9200	1/26	30	6.4	5.8		5.5	20			
LaBonte	5G2	8450	1/27	23	4.7	3.3	3.8		8			
North Barrett Cr.		9400	2/1	53	15.4	15.5	8.9	11.6	19			
North French Cr.	6H4	10200	2/1	78	24.1		12.8	16.4	19			
C C	6J7	8500	2/1	30	5.8	5.0	2.3	4.4	7			
Old Battle	6H10	9800	1/31	87	26.6		13.5	19.2	19			
Park View ^o	6J 2	9200	2/1	36	7.8	6.5	3.8	6.0	19			
Ryan Park #2	6H6	8400	2/1	42	10.0	10.2	6.6	6.8	19			
Webber Spring	6H9	9000	1/31	57	16.5	15.4		10.8	19			
Willow Creek Pass	6 J 5	9500	1/31	44	10.0	10.0	5.6	7.6	17			
MISSOURI - CHEYENNE	RIVER											
Upper Spearfish	3E1	6500	1/31	23	5.0	3.3	4.6	4.5**	13			
UPPER COLORADO - G	REEN R	IVER										
Big Park	10G11	8700	7	No Repo	nrt.							
Dutch Joe R.S.	9G5	8700	2/4	33 35	7.7	8.3			1			
East Rim Divide	10F17		1/29	28		10.7	3.5		2			
Green River Lakes	9F16	8100	2/1	18	3.7	4.8			ĩ			



DRAINLOE BASIN and cr						SNOW CO	OVER ME	SUREM	ENTS	
SNO. COURSE State Elev. of Depth Content Survey (In.) (In.) 1956 1955 Avg. Record VPFER COLORADO - GREEN RIVER (Gon't.) Gros Ventre Summit 10F19 8750 2/1 31 7.0 13.6 1955 Avg. Record VFFER COLORADO - GREEN RIVER (Gon't.) Gros Ventre Summit 10F19 8750 2/1 31 7.0 13.6 1 1	DRAINAGE BASIN	No.		***************************************	1957					r d
Short Course				Date	-	Water				
### Survey (Th.) (In.) 1956 1955 Avg. Record ###################################		State	Elev.						•	7
### GCIORADO - GREEN RIVER (Gon*t.) Gros Ventre Summit 10F19 8750 2/1 31 7.0 13.6 1 Kelly R.S. 10G12 8200 10 Report Kendall R.S. 10F15 7900 1/31 20 6.3 9.9 1 Loomis Park 10F16 8500 1/29 42 9.4 18.9 1 Mulligan Park 9F1 8900 1/30 31 7.4 10.8 1 Mulligan Park 9F1 8900 1/30 31 7.4 10.8 1 Piney LeBarge 10G10 8820 2/1 49 11.9 Piney LeBarge 10G10 8820 2/1 49 11.9 Poison Keadows 10G6 8500 No Report Snyder Basin R.S. #210G13 8040 1/31 40 9.6 15.4 1 Scala Lake 10G14 8300 2/3 49 15.1 Triple Peaks 10G15 8500 2/3 56 15.6 **SNAKE RIVER - ABOVE JACKSON IAKE** Arizona*** 10F1 6850 2/1 53 12.3 21.8 7.3 11.7 27 Aster Creek*** 10E8 7700 1/31 69 19.0 36.8 10.7 20.0 27 Base Camp*** 10F10 600 1/29 59 15.7 24.0 10.1 13.8 27 Glade Greek*** 10E15 7600 1/29 59 15.7 24.0 10.1 13.8 27 Glade Greek*** 10E15 7265 1/31 92 24.0 36.8 16.4 21.5** 17 Lewis Lake Divide***10E9 7900 1/31 88 27.3 50.5 16.6 27.4 27 Moran Bay*** 10F4 6800 2/1 52 12.9 22.9 8.5 12.5 27 Hundra Bay*** 10F7 6800 2/1 58 14.3 23.9 8.9 13.0 27 Thumb Divide*** 10E7 7900 1/31 58 14.9 22.8 7.3 13.5 27 Snake River Sta.*** 10E12 6780 2/1 58 14.3 23.9 8.9 13.0 27 Thumb Divide*** 10E7 7900 1/31 58 14.9 22.8 7.3 15.5 27 Snake River Sta.*** 10E7 7900 1/31 58 14.9 22.8 7.3 13.5 27 Snake River Sta.*** 10E7 6900 2/1 58 14.3 23.9 8.9 13.0 27 Thumb Divide*** 10E7 7900 1/31 58 12.8 NR 8.2 18.2** 10 JACKSON LAKE TO PALISADES Afton R.S. 10G4 6200 1/30 18 4.1 3.3 2.8 3.8 21 Base Camp 10F2 6900 2/1 53 12.4 20.1 6.7 13.0 10 Blackrock 10F7 8600 2/2 55 12.6 21.9 7.3 14.8 21 CC Camp 10G7 7500 1/30 35 7.8 10.5 5.0 7.9 21 East Rim Divide 10F17 7950 1/29 28 6.7 10.7 3.5 21 Four Hile Headows 10F6 7770 2/2 59 8.4 13.4 5.3 9.1 21 Greeys Boundary 10F18 5600 1/30 30 6.3 7.8 5.5 7.5 21								1955		
Gros Ventre Summit 10F19 3750 2/1 31 7.0 13.6 1 Kelly R.S. 10G12 8200 No Report Kendall R.S. 10F15 7900 1/31 2G 6.3 9.9 1 Loomis Park 10F16 8500 1/29 42 9.4 18.9 1 Loomis Park 10F16 8500 1/30 31 7.4 10.8 1 Old Battle 6H10 9800 1/31 87 26.6 25.0 13.5 19.2 19 Piney LeBarge 10G10 8820 2/1 49 11.9 Poison Meadows 10G6 8500 No Report Snyder Basin R.S. #210G13 8040 1/31 40 9.6 15.4 1 Friple Peaks 10G14 8300 2/3 49 13.1 Triple Peaks 10G15 8500 2/3 56 15.6 SNAKE RIVER - ABOVE JACKSON LAKE Arizona*** 10F1 6850 2/1 53 12.3 21.8 7.3 11.7 27 Aster Creek*** 10EB 7700 1/31 69 19.0 36.8 10.7 20.0 27 Aster Creek*** 10E10 7600 1/29 59 15.7 24.0 10.1 13.8 27 Glade Creek*** 10E15 7265 1/31 92 24.0 36.8 16.4 21.5** 17 Huckleberry Divide***10E9 7900 1/31 88 27.3 50.5 16.6 27.4 27 Huckleberry Divide***10E9 7900 1/31 88 27.3 50.5 16.6 27.4 27 Horan *** 10F4 6800 2/1 52 12.9 22.9 8.5 12.5 27 Lewis Leke Divide***10E9 7900 1/31 88 27.3 50.5 16.6 27.4 27 Horan *** 10F4 6800 2/1 58 14.9 22.8 7.3 13.5 27 Snake River Sta.*** 10E12 6780 2/1 58 14.3 23.9 8.9 13.0 27 Thumb Divide*** 10E7 7900 1/31 53 12.4 20.1 6.7 13.0 27 Thumb Divide*** 10E7 7900 1/31 53 12.8 NR 8.2 18.2** 10 JACKSON LAKE TO PALISADES Afton R.S. 10G4 6200 1/30 18 4.1 3.3 2.8 3.8 21 Base Camp 10F2 6900 2/1 53 12.4 20.1 6.7 13.0 10 Elackrock 10F7 8600 2/2 53 12.6 21.9 7.8 14.8 21 Bryan Flat 10F14 6250 1/29 28 6.7 10.7 3.5 22 CCC Camp 10G7 7500 1/30 33 7.8 10.5 5.0 7.9 21 East Rim Divide 10F17 7950 1/29 28 6.7 10.7 3.5 7.5 21 Greys Boundary 10F18 5800 1/30 30 6.3 7.8 5.5 7.5 21	TIDDED, COTODADO - ODI	EEM DY	neo (a.							handininkas i rinna sin-u-mossie
Kelly R.S. 10612 8200 No Report Kendall R.S. 10F15 7900 1/31 26 6.3 9.9 1 Lomis Park 10F16 8500 1/29 42 9.4 18.9 1 Lulligan Park 9F1 8900 1/30 31 7.4 10.8 1 Mulligan Park 9F1 8900 1/31 87 26.6 25.0 13.5 19.2 19 Piney LaBarge 10610 8820 2/1 49 11.9 11.9 Poison Meadows 1066 8500 No Report Snyder Basin R.S. #210613 8040 1/31 40 9.6 15.4 1 Sriple Peaks 10616 8500 2/3 56 15.6 SNAKE RIVER - ABOVE JACKSON LAKE Arizona*** 10F1 6850 2/1 53 12.3 21.8 7.3 11.7 27 Aster Creek*** 10E8 7700 1/31 69 19.0 36.8 10.7 20.0 27 Base Camp**** 10F1 6850 2/1 53 12.4 20.1 6.7 13.0** 10 Coulter Creek*** 10E13 7200 1/31 59 14.9 25.8 9.3 14.6 27 Grassy Lake* 10E15 7266 1/31 92 24.0 36.8 16.4 21.5** 17 Huckleberry Divide***10E9 7900 1/31 88 27.3 50.5 16.6 27.4 27 Horan *** 10F4 6800 2/1 52 12.9 22.9 8.5 12.5 27 Lewis Lake Divide***10E9 7900 1/31 88 27.3 50.5 16.6 27.4 27 Noran *** 10F4 6800 2/1 58 14.9 25.8 7.3 11.5 27 Snake River Sta.*** 10E12 6780 2/1 58 14.3 23.9 8.9 13.0 27 Snake River Sta.*** 10E12 6780 2/1 58 14.3 23.9 8.9 13.0 27 Snake River Sta.*** 10E12 6780 2/1 58 14.3 23.9 8.9 13.0 27 Thumb Divide*** 10E7 7900 1/31 53 12.4 20.1 6.7 13.0 10 Blackrook 10F7 8600 2/2 53 12.6 21.9 7.8 14.8 21 CCC Camp 10F7 7500 1/30 35 7.8 10.5 5.0 7.9 21 East Rim Divide 10F17 7550 1/29 28 6.7 10.7 3.5 5.0 7.9 21 Everys Boundary 10F18 5600 1/30 36 6.3 7.8 5.5 7.5 21	WITHIN GOLDENIA - GI	DETA MT	A 7276 & Ch.	otr. o.)	**					
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Old Battle 6H10 9800 1/31 87 26.6 25.0 13.5 19.2 19 Piney LaBarge 10G10 8820 2/1 49 11.9 Poison Meadows 10G6 8500 No Report Snyder Basin R.S. #210G13 8040 1/31 40 9.6 15.4 1 Soda Lake 10G14 8300 2/3 49 13.1 Triple Peaks 10G15 8500 2/3 56 15.6 SNAKE RIVER - ABOVE JACKSON LAKE Arizona*** 10F1 6850 2/1 53 12.3 21.8 7.3 11.7 27 Aster Creek*** 10E8 7700 1/31 69 19.0 36.8 10.7 20.0 27 Base Camp*** 10F2 6800 2/1 53 12.4 20.1 6.7 13.0** 10 Coulter Creek*** 10E10 7600 1/29 59 15.7 24.0 10.1 13.8 27 Glade Creek*** 10E15 7266 1/31 59 14.9 25.8 9.3 14.6 27 Grassy Lake* 10E15 7265 1/31 92 24.0 36.8 16.4 21.5** 17 Huckleberry Divide***10E14 7300 2/1 52 12.9 22.9 8.5 12.5 27 Lewis Lake Divide***10E9 7900 1/31 88 27.3 50.5 16.6 27.4 27 Moran*** 10F4 6800 2/1 41 8.2 14.0 4.7 7.8 27 Moran*** 10F3 6800 2/3 63 14.9 22.8 7.3 13.5 27 Snake River Sta.*** 10E12 6780 2/1 58 14.3 23.9 8.9 13.0 27 Thumb Divide*** 10E7 7900 1/31 53 12.8 NR 8.2 18.2** 10 JACKSON LAKE TO PALISADES Afton R.S. 10G4 6200 1/30 18 4.1 3.3 2.8 3.8 21 Base Camp 10F2 6900 2/1 53 12.4 20.1 6.7 13.0 10 Dlackrock 10F7 8600 2/2 53 12.6 21.9 7.8 14.8 21 Bryan Flat 10F14 6250 1/29 28 5.8 8.1 3.0 6.7 21 CCC Camp 10G7 7500 1/30 35 7.8 10.5 5.0 7.9 21 East Rim Divide 10F17 7950 1/29 28 6.7 10.7 3.5 Four Hile Headows 10F6 7770 2/2 39 8.4 13.4 5.5 9.1 21 Creys Boundary 10F18 5600 1/30 30 6.3 7.8 5.5 7.5	Loomis Park	10F16	8500	1/29	42	9.4	18.9			1
Piney LaBarge	Mulligan Park	9F1	8900	1/30	31	7.4	10.8			N sie
Piney LaBarge	Old Battle	6H10	9800	1/31	87	26.6	25.0	13.5	19.2	19
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Blackrock 10F7 8600 2/2 53 12.6 21.9 7.8 14.8 21 Bryan Flat 10F14 6250 1/29 28 5.8 8.1 3.0 6.7 21 CCC Camp 10G7 7500 1/30 35 7.8 10.5 5.0 7.9 21 East Rim Divide 10F17 7950 1/29 28 6.7 10.7 3.5 2 Four Mile Neadows 10F6 7770 2/2 39 8.4 13.4 5.3 9.1 21 Greys Boundary 10F18 5800 1/30 30 6.3 7.8 5.5 7.5 21										
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Greys Boundary 10F18 5800 1/30 30 6.3 7.8 5.5 7.5 21				1/23					0 7	
Jan and the same of the same o				2/2						
Gros venere summer 101.19 8/50 2/1 31 7.0 13.6								5.5	1.0	
	Gros ventre Summit	101.19	6/50	2/1	9.1	7.0	19.0			T



TRANSPORTER ATT - VERTICAL ASSOCIATION I ALC TRANSPORT SE PROFESSOR SENT OF ASSOCIATION					NOW COVE	R MEAS	UREMEN	TS	rananci din reproduce represenditation din
DRAINAGE BASIN	No.			1957		:Pa		есо	
and	or		Date	Snow)Previou
SNOW COURSE	State	Elev.	of		Content			938-52	Yrs. of
CONTRACTOR CONTRACT - Davis - dense contractor de contract			Survey	(In.	(In.)	1956	1955	Avg.	Record
JACKSON LAKE TO PA	LISADES	Con'	t.)						
Grover Park Divide	10G3	7500	1/31	34	7.5	9.8	4.9	7.5	21
Loomis Park*	10F16	8500	1/29	42	9.4	18.9			1
Poison Meadows	10G6	8500	,	No Re	port				
Salt River Summit	10 G8	7900	1/30	39	10.0	14.8	5.2		ક
Snow King Mtn.#1	10F11	7600	1/28	29	6.0	12.2	4.0		6
Snow King Mtn. 2	10F12	7600	1/28	29	5.7	10.0	3.7		2
Teton Pass #2	10F 13	8500	1/29	64	19.4	35.6	15.6	25.0**	1.2
Togwotee Pass	10F9	9600	2/2	67	16.9	29.4	11.6	19.2	21
Turpin Meadows	10F5	6930	2/2	39	8.3	12.0	3.9	7.4	21
Yellowjacket	10F10	7675	2/5	22	3.5	7.3	NR	4.3	10
BEAR RIVER									
CCC Camp	10G7	7500	1/30	33	7.8	10.5	5.0	7.9	21
Salt River Summit	10G8	7900	1/30	39	10.0	14.8	5.2		8

^{*} Not located directly on this drainage.

^{**} Average is for less than 15 years of record in the 1938-52 period.

^{***} Feb., 1930-1950 water contents estimated from Jan. 15 and Feb. 15 snow surveys and Snake River Station climatological data.

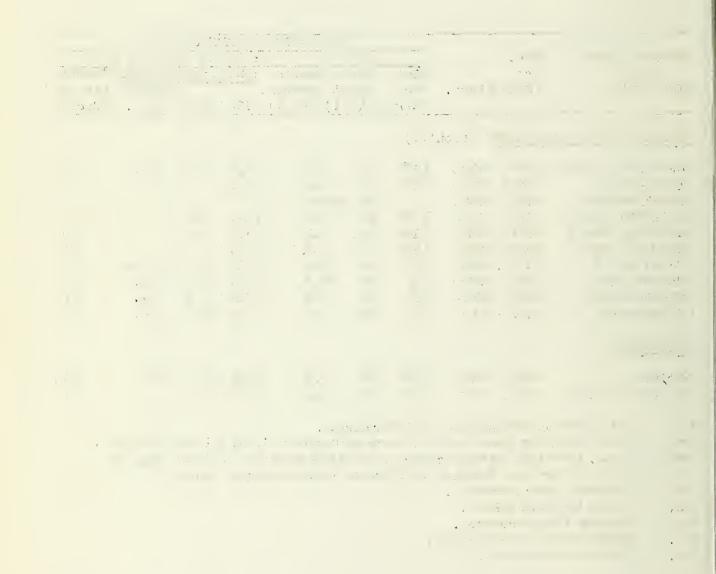
c. Colorado snow courses.

d. Formerly Muddy Pass.

m. Montana snow courses.

s. South Dakota snow courses.

u. Utali snow courses.



-13-STATUS OF WYOMING AND SOUTH DAKOTA RESERVOIR STORAGE - FEB. 1, 1957

BASIN		USABLE	USABLE	STORA	GE - 100	O ACRE FEET
and/or	RESERVOIR	CAPACITY				15-Yr.Avg.
STREAM		1000s AF	1957	1956	1955	1938-1952
0 1 0:	* 1	045.0	05.5	750 4	4300	A = 0 - F
Snake River	Jackson	847.0	85.5	350.4	416.8	479.3
North Platte	Seminoe	981.8	255.5	275.7	298.2	385.9*
North Platte	Pathfinder	1011.0	229.9	348.6	420.1	362.3*
North Platte	Alcova**	190.5	171.7	170.0	171.4	82.5*
North Platte	Guernsey	39.8	31.7	23.1	11.8	34.9
North Platte	Souther land	185.0	26.0	56. 8	42.6	47.6
North Platte	Kingsley	1995.0	565.0	824.5	1120.8	1087.7*
North Platte	Minatare	60.8	2.0	16.1	19.9	23.4
Kansas Basin	Bonny	39.9	36.0	35.6	-	18.5*
Kansas Basin	Swanson Lake	116.1	47.6	46.4		
Kansas Basin	Enders	36.0	31.5	31.0	34.1	20.0*
Kansas Basin	Harry Strunk	33.9	19.0	18.4	-	23.6*
Kansas Basin	Harlan County	252.9	72.5	71.6		
Kansas Basin	Cedar Bluff	176.8	119.0	118.7	86.7	173.8*
Laramie River	Wheatland	70.4	4.5	1.0		28.5
Belle Fourche	Belle Fourche	185.2	28.4	69.8	51.5	95.7*
Belle Fourche	Keyhole	190.3	11.2	18.1	5.0	
Shoshone River	Buffalo Bill	439.8	143.9	139.7	145.8	277.4
Wind River	Boysen	560.0	240.6	81.9	339.6	
Wind River	Pilot Butte	31.6	9.2	11.7	9.2	13.0*
Wind River	Bull Lake	152.0	76.0	72.6		63.7*
MING WIVEL	Duil Lake	102.0	70.0	12.0	00.0	00 6 7 7
Cheyenne River	Angostura	92.0	25.4	77.2	31.9	52.0*
Cheyenne River	Deerfield	15.1	7.6	9.7	10.2	12.8*
Grand River	Shadehill	84.0	76.6	71.0	76.1	
Green River	Big Sandy	38.3	9.9	6.1	8.9	

^{*} Average is for less than 15 years of record in the 1938-52 period.

^{**} Alcova, downstream from Seminoe and Pathfinder includes 160,170 acre feet of storage that is unavailable to the Kendrick Project.



The data included in this report were obtained by the Soil Conservation Service in cooperation with the agencies named below:

STATE

State Engineer of Wyoming

FEDERAL

- U.S. Department of Agriculture Forest Service
- U.S. Department of Commerce Weather Bureau
- U.S. Department of the Interior Bureau of Reclamation National Park Service Geological Survey

PRIVATE

Wheatland Irrigation District

Federal - State - Private COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"